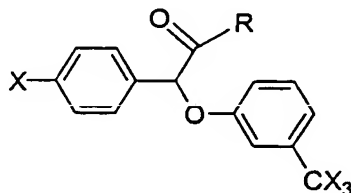


WHAT IS CLAIMED IS:

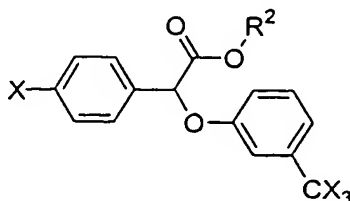
- 1 1. A method of modulating Type 2 diabetes in a mammal,
2 comprising: administering to said mammal a therapeutically effective amount of the (-)
3 stereoisomer of a compound of Formula I,



(I)

- 4
5
6 wherein:
7 R is a member selected from the group consisting of a hydroxy, lower
8 aralkoxy, di-lower alkylamino-lower alkoxy, lower alkanamido lower alkoxy,
9 benzamido-lower alkoxy, ureido-lower alkoxy, N'-lower alkyl-ureido-lower alkoxy,
10 carbamoyl-lower alkoxy, halophenoxy substituted lower alkoxy, carbamoyl substituted
11 phenoxy, carbonyl-lower alkylamino, N,N-di-lower alkylamino-lower alkylamino, halo
12 substituted lower alkylamino, hydroxy substituted lower alkylamino, lower alkanolyloxy
13 substituted lower alkylamino, ureido, and lower alkoxycarbonylamino; and
14 X is a halogen; or
15 a pharmaceutically acceptable salt thereof,
16 wherein the compound is substantially free of its (+) stereoisomer.

- 1 2. The method of claim 1, wherein the compound is a compound of
2 Formula II,



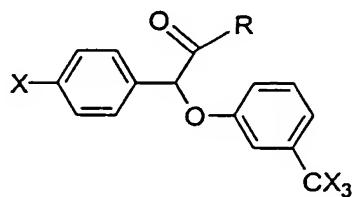
(II)

- 3
4
5 wherein:
6 R² is a member selected from the group consisting of a phenyl-lower alkyl,
7 lower alkanamido-lower alkyl, and benzamido-lower alkyl.

- 1 3. The method of claim 1, wherein the compound is (-) 2-
2 acetamidoethyl 4-chlorophenyl-(3-trifluoromethylphenoxy) acetate.
- 1 4. The method of claim 1, wherein the compound is administered by
2 intravenous infusion, transdermal delivery, or oral delivery.
- 1 5. The method of claim 1, wherein the amount administered is about
2 100 mg to about 3000 mg per day.
- 1 6. The method of claim 1, wherein the amount administered is about
2 500 mg to about 1500 mg per day.
- 1 7. The method of claim 1, wherein the amount administered is about 5
2 to about 250 mg per kg per day.
- 1 8. The method of claim 1, wherein the compound is administered
2 together with a pharmaceutically acceptable carrier.
- 1 9. The method of claim 1, wherein the compound modulates
2 hyperglycemia by reducing blood glucose levels in the mammal.
- 1 10. The method of claim 1, wherein the compound modulates
2 hemoglobin A_{1c} in the mammal.
- 1 11. The method of claim 1, wherein the compound modulates a
2 microvascular and macrovascular complication associated with diabetes.
- 1 12. The method of claim 11, wherein the microvascular complication is
2 retinopathy, neuropathy or nephropathy.
- 1 13. The method of claim 11, wherein the macrovascular complication
2 is cardiovascular disease or peripheral vascular disease.
- 1 14. The method of claim 1, wherein the compound modulates
2 atherosclerosis.
- 1 15. The method of claim 1, wherein the compound prevents the
2 development of diabetes in a mammal.

1 16. The method of claim 1, wherein the compound is administered in
2 combination with a compound selected from the group consisting of: a sulfonylurea or
3 other insulin secretagogue, a thiazolidinedione, a fibrate, a HMG-CoA reductase
4 inhibitor, a biguanide, a bile acid binding resin, nicotinic acid, a α -glucosidase inhibitor,
5 and insulin.

1 17. A method for modulating insulin resistance in a mammal,
2 comprising: administering to said mammal a therapeutically effective amount of the (-)
3 stereoisomer of a compound of Formula I,



(I)

wherein:

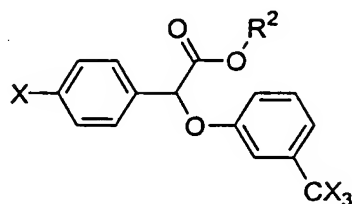
R is a member selected from the group consisting of a hydroxy, lower
aralkoxy, di-lower alkylamino-lower alkoxy, lower alkanamido lower alkoxy,
benzamido-lower alkoxy, ureido-lower alkoxy, N'-lower alkyl-ureido-lower alkoxy,
carbamoyl-lower alkoxy, halophenoxy substituted lower alkoxy, carbamoyl substituted
phenoxy, carbonyl-lower alkylamino, N,N-di-lower alkylamino-lower alkylamino, halo
substituted lower alkylamino, hydroxy substituted lower alkylamino, lower alkanolyloxy
substituted lower alkylamino, ureido, and lower alkoxycarbonylamino; and

X is a halogen; or

a pharmaceutically acceptable salt thereof,

wherein the compound is substantially free of its (+) stereoisomer.

1 18. The method of claim 17, wherein the compound is a compound of
2 Formula II,



3

4

(II)

5 wherein:

6 R² is a member selected from the group consisting of a phenyl-lower alkyl,
7 lower alkanamido-lower alkyl, and benzamido-lower alkyl.

1 19. The method of claim 17, wherein the compound is (-) 2-
2 acetamidoethyl 4-chlorophenyl-(3-trifluoromethylphenoxy) acetate.

1 20. The method of claim 17, wherein the compound is administered by
2 intravenous infusion, transdermal delivery, or oral delivery.

1 21. The method of claim 17, wherein the amount administered is about
2 100 mg to about 3000 mg per day.

1 22. The method of claim 17, wherein the amount administered is about
2 500 mg to about 1500 mg per day.

1 23. The method of claim 17, wherein the amount administered is about
2 5 to about 250 mg per kg per day.

1 24. The method of claim 17, wherein the compound is administered
2 together with a pharmaceutically acceptable carrier.

1 25. The method of claim 17, wherein the compound prevents the
2 development of insulin resistance in a mammal.

1 26. The method of claim 17, wherein the compound modulates
2 polycystic ovarian syndrome.

1 27. The method of claim 17, wherein the compound modulates
2 Impaired Glucose Tolerance.

1 28. The method of claim 17, wherein the compound modulates obesity.

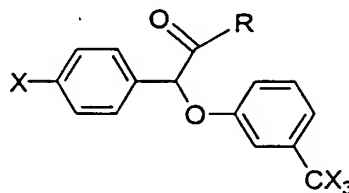
1 29. The method of claim 17, wherein the compound modulates
2 gestational diabetes.

1 30. The method of claim 17, wherein the compound modulates
2 Syndrome X.

1 31. The method of claim 17, wherein the compound modulates
2 atherosclerosis.

1 32. The method of claim 17, wherein the compound is administered in
2 combination with a compound selected from the group consisting of: a sulfonylurea or
3 other insulin secretagogue, a thiazolidinedione, a fibrate, a HMG-CoA reductase
4 inhibitor, a biguanide, a bile acid binding resin, nicotinic acid, a α -glucosidase inhibitor,
5 and insulin.

1 33. A method of alleviating hyperlipidemia in a mammal, comprising
2 administering to said mammal a therapeutically effective amount of the (–) stereoisomer
3 of a compound of Formula I,



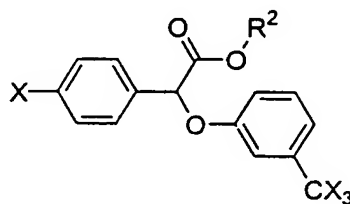
(I)

6 wherein:

7 R is a member selected from the group consisting of a hydroxy, lower
8 aralkoxy, di-lower alkylamino-lower alkoxy, lower alkanamido lower alkoxy,
9 benzamido-lower alkoxy, ureido-lower alkoxy, N'-lower alkyl-ureido-lower alkoxy,
10 carbamoyl-lower alkoxy, halophenoxy substituted lower alkoxy, carbamoyl substituted
11 phenoxy, carbonyl-lower alkylamino, N,N-di-lower alkylamino-lower alkylamino, halo

12 substituted lower alkylamino, hydroxy substituted lower alkylamino, lower alkanolyloxy
13 substituted lower alkylamino, ureido, and lower alkoxycarbonylamino; and
14 X is a halogen; or
15 a pharmaceutically acceptable salt thereof,
16 wherein the compound is substantially free of its (+) stereoisomer.

1 34. The method of claim 33, wherein the compound is a compound of
2 Formula II,



(II)

5 wherein:

6 R² is a member selected from the group consisting of a phenyl-lower alkyl,
7 lower alkanamido-lower alkyl, and benzamido-lower alkyl.

1 35. The method of claim 33, wherein the compound is (-) 2-
2 acetamidoethyl 4-chlorophenyl-(3-trifluoromethylphenoxy) acetate.

1 36. The method of claim 33, wherein the compound is administered by
2 intravenous infusion, transdermal delivery, or oral delivery.

1 37. The method of claim 33, wherein the compound lowers cholesterol
2 levels, triglyceride levels, or both.

1 38. The method of claim 33, wherein the amount administered is about
2 100 mg to about 3000 mg per day.

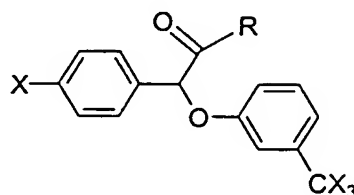
1 39. The method of claim 33, wherein the amount administered is about
2 500 mg to about 1500 mg per day.

1 40. The method of claim 33, wherein the amount administered is about
2 5 to about 250 mg per kg per day.

1 41. The method of claim 33, wherein the compound is administered
2 together with a pharmaceutically acceptable carrier.

1 42. The method of claim 33, wherein the compound is administered in
2 combination with a compound selected from the group consisting of: a sulfonylurea or
3 other insulin secretagogue, a thiazolidinedione, a fibrate, a HMG-CoA reductase
4 inhibitor, a biguanide, a bile acid binding resin, nicotinic acid, a α -glucosidase inhibitor,
5 and insulin.

1 43. A pharmaceutical composition comprising a pharmaceutically
2 acceptable carrier and a therapeutically effective amount of the (-) stereoisomer of a
3 compound of Formula I,



(I)

6 wherein:

7 R is a member selected from the group consisting of a hydroxy, lower
8 aralkoxy, di-lower alkylamino-lower alkoxy, lower alkanamido lower alkoxy,
9 benzamido-lower alkoxy, ureido-lower alkoxy, N'-lower alkyl-ureido-lower alkoxy,
10 carbamoyl-lower alkoxy, halophenoxy substituted lower alkoxy, carbamoyl substituted
11 phenoxy, carbonyl-lower alkylamino, N,N-di-lower alkylamino-lower alkylamino, halo
12 substituted lower alkylamino, hydroxy substituted lower alkylamino, lower alkanolyloxy
13 substituted lower alkylamino, ureido, and lower alkoxycarbonylamino; and

14 X is a halogen; or
15 a pharmaceutically acceptable salt thereof,
16 wherein the compound is substantially free of its (+) stereoisomer.

1 44. The pharmaceutical composition of claim 43, wherein the
2 pharmaceutical composition modulates Type 2 diabetes.

1 45. The pharmaceutical composition of claim 43, wherein the
2 pharmaceutical composition modulates insulin resistance.

